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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/717,645	KRUY ET AL	
	<b>Examiner</b>	<b>Art Unit</b>	
	Sana Al-Hashemi	2161	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/28/05.
2. ☒ The allowed claim(s) is/are 2-7, 10-18-26-27, and 29-32.
3. ☐ The drawings filed on 21 November 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

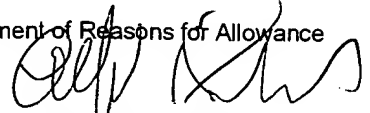
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|--|---|

  
**ALFORD KINDRED**  
**PRIMARY EXAMINER**

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### DETAILED ACTION

1. This action issue in response to applicant's amendment filed 4/28/05.
2. Claims 2-7, 10-18-26-27, and 29-32, are amended. Claims 1, 8,9, 19-25, and 28, are canceled.
3. Claims 2-7, 10-18-26-27, and 29-32, are allowed

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sharon Fenick on April 28, 2005.

The application has been amended as follows:

Please replace Claims 1-32 with the following:

1. (Canceled).
2. (Currently amended) A computerized method for maintaining versions of project data, the project data, having at least one project data attribute, the method comprising:  
receiving an updated value for the project data attribute;

saving a previous version of the project data in a first data structure, wherein the previous version contains a value of the at least one project data attribute prior to the update, and wherein  
~~The computerized method of claim 1, wherein saving a previous version of the project data~~  
~~includes setting~~ an end time field is said first data structure is set to a value corresponding to a  
current time; and

creating a current version of the project data in a second data structure, wherein the  
current version of the project data contains the updated value, and wherein said creation of a  
current version comprises ~~and wherein creating a current version of the project data includes the~~  
~~tasks of~~ (a) creating said second data structure; (b) setting a start time field in the second data  
structure to a value comprising the current time used to set the end time field of the first data  
structure; and (c) setting an end time field in the second data structure to a value representing a  
most recent version of the object.

3. (Original) The computerized method of claim 2, further comprising setting a  
property value field to the updated value.

4. (Original) The computerized method of claim 2, wherein the value representing the most  
recent value is a blank value.

(Original) The computerized method of claim 2, wherein the value representing the most recent  
value is a null value.

6. (Original) The computerized method of claim 2, wherein the data structure comprises at least  
one row in a database.

7. (Original) The computerized method of claim 2, wherein the database is a relational database.

8-9. (Cancelled)

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10. (Currently amended) A compute readable medium having computer-executable instructions for maintaining versions of project data, the project data, having at least one project data attribute said computer-executable instructions performing a method comprising:

receiving an updated value for the project data attribute;

saving a previous version of the project data in a first data structure, wherein the previous version contains a value of the at least one project data attribute prior to the update, and wherein

~~The computer method of claim 9, wherein saving a previous version of the project data includes~~ setting an end time field in said first data structure is set to a value corresponding to a current time; and

creating a current version of the project data in a second data structure, wherein the current version of the project data contains the updated value, and wherein said creation of a current version comprises ~~and wherein creating a current version of the project data includes the tasks of~~ (a) creating said second data structure; (b) setting a start time field in the second data structure to a value comprising the current time used to set the end time field of the first data structure; and (c) setting an end time field in the second data structure to a value representing a most recent version of the object.

11. (Original) The computer-readable medium of claim 10, further comprising setting a property value field to the updated value.

12. (Original) The computer-readable medium of claim 10, wherein the value representing the most recent value is a blank value.

13. (Original) The computer-readable medium of claim 10, wherein the value representing the most recent value is a null value.

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14. (Original) The computer-readable medium of claim 10, wherein the data structure is at least one row in a database.

15. (Original) The computer-readable medium of claim 10, wherein the database is a relational database.

16. (Currently amended) A computerized system comprising:

a processor and a computer-readable medium;

an operating environment executing on the processor from the computer-readable medium ; and

a project tracking system operative to maintain versions of project data comprising at least one project data element, wherein said project tracking system updates said project data elements by: (i) saving a previous version of the project data in a first data structure, wherein the previous version contains a value of the at least one project data attribute prior to the update, and wherein an end time field in said first data structure is set to a value corresponding to a current time; and (ii) creating a current version of the project data in a second data structure, wherein the current version of the project data contain the updated value, and wherein said creation of a current version comprises (a) creating said a second data structure; (b) setting a start time field in the second data structure to a value the current time; and (c) setting an end time field in the second data structure to a value representing a most recent version of the object.

17. (Previously presented) The computerized system of claim 16, wherein the project tracking System comprises:

a visual interface operative to display the project data and receive an update to the project data element; and

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a project database operative to store a new version of project data upon receipt of an update to the project data element.

18. (Original) The computerized system of claim 17, wherein the project database is a relational database.

19-25 (Canceled)

26. Currently amended) A computerized method for maintaining versions of project data, the project data having at least one project data attribute, said computer-executable instructions performing a method comprising:

receiving an updated value for the project data attribute;

saving a previous version of the project data in a first data structure wherein said previous version contains at least one value, each of said at least one value corresponding to said at least one project data attribute prior to the update, said previous version further comprising user interface information corresponding to a user interface used to display said at least one value; and wherein ~~The computerized method of claim 25, wherein saving a previous version of the project data includes setting an end time field in said first data structure is set to a value corresponding to a current time; and~~

creating a current version of the project data in a second data structure, wherein the current version of the project data contain the updated value, and wherein said creation of a current version comprises ~~and wherein creating a current version of the project data includes the tasks of (a) creating said second data structure; (b) setting a start time field in the second data structure to a value comprising the current time used to set the end time field of the first data~~

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structure; and (c) setting an end time field in the second data structure to a value representing a most recent version of the object.

27. (Previously amended) The computerized method of claim 26, further comprising setting a property value field to the updated value.

28. (Canceled)

29. (Currently amended) A compute readable medium having computer-executable instructions for maintaining version of project data, the project data, having at least one project data attribute, said computer-executable instructions performing a method comprising:

receiving an updated value for the project data attribute;

saving a previous version of the project data in a first data structure, wherein the previous version contains at least one value, each of said at least one value corresponding to said at least one project data attribute prior to the update, said previous version further comprising user interface information corresponding to a user interface used to display said at least one value; and wherein ~~The computer readable medium of claim 28, wherein saving a previous version of the project data includes setting~~ an end time field is said first data structure is set to a value corresponding to a current time; and

creating a current version of the project data in a second data structure, wherein the current version of the project data contains the updated value, and wherein said creation of a current version comprises ~~and wherein creating a current version of the project data includes the tasks of~~ (a) creating said second data structure; (b) setting a start time field in the second data structure to a value the current time; and (c) setting an end time field in the second data structure to a value representing a most recent version of the object.

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30. (Currently amended) A compute-readable medium of claim 29, further comprising setting a property value field to the updated value.

31. (Previously amended) A computerized system comprising:

a processor and a computer-readable medium;

an operating environment executing on the processor from the computer-readable medium; and

a project tracking system operative to maintain versions of project data comprising at least one project data element, wherein said project tracking system updates said project data elements by: (i) saving a previous version of the project data in a first data structure, wherein the previous version contains a value of the at least one project data attribute prior to the update, and wherein an end time field in said first data structure is set to a value corresponding to a current time; and (ii) creating a current version of the project data in a second data structure, wherein the current version of the project data contain the updated value, and wherein said creation of a current version comprises (a) creating said a second data structure; (b) setting a start time field in the second data structure to a value the current time; and (c) setting an end time field in the second data structure to a value representing a most recent version of the object.

32. (Previously presented) The computerized system of claim 31, wherein the project tracking system comprises:

a visual interface operative to display the project data according to said user interface information, and to receive an update to the project data element; and

a project database operative to store a new version of project data upon receipt of an update to the project data element.



***Allowable Subject Matter***

4. The following is an examiner's statement of reasons for allowance: Regarding independent claims 2, 10, 16, 26, 29, and 31, the prior art of record fails to teach or suggest the steps of saving a previous version of the project data in a first data structure wherein the previous version contains at least one value, each of the at least one value corresponding to the at least one project data attribute prior to the update, the previous version further comprising user interface information corresponding to a user interface used to display the at least one value, wherein an end time field in the first data structure is set to a value corresponding to a current time, creating a current version of the project data in a second data structure, wherein the current version of the project data contain the updated value, and wherein the creation of a current version comprises (a) creating said a second data structure; (b) setting a start time field in the second data structure to a value comprising the current time used to set the end time field of the first data structure; and (c) setting an end time field in the second data structure to a value representing a most recent version of the object, in conjunction with remaining claim provisions is not taught or suggested, or obvious over the prior art of record or that encountered in searching the invention.
5. The dependent claims, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Comments**

**The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. In no case may an applicant reply outside the SIX (6) MONTH statutory period or obtain an extension for more than FIVE (5) MONTHS beyond the date for reply set forth in an Office action. A fully responsive reply must be timely filed to avoid abandonment of this application.**

**Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."**

As allowable subject matter has been indicated, Applicant's response must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CRF 1.111(b) and MPEP section 707.07(a).

### ***Other Prior Art Made of Record***

1. Eisenberg et al. (US Patent No. 5,890,166) discloses a Versioned-database management system in which tasks are associated with promote groups which comprise a set of parts whose changes are to be promoted.

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2. Bendert et al. (US Patent No. 5,761,678) discloses Creation of clone storage area with identification of base storage area and deferred cloning of metadata .
3. Bereiter et al. (US Patent No. 5,917,492) discloses Method and system for displaying an expandable tree structure in a data processing system graphical user interface.
4. Parker et al. (US Patent No. 6,366,930) discloses a Intelligent data inventory & asset management systems method and apparatus.
5. Novak et al. (US Patent No. 6,393,419) discloses a Multipoint database synchronization protocol to avoid data corruption.


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***Points of Contact***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to: Sana Al-Hashemi whose telephone number is (571) 272-4013. The examiner can normally be reached on Monday - Friday from 8:00 AM to 4:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic, can be reached on (571) 272-4023. Any response to this office action should be mailed to: The Commissioner of Patents and Trademarks, Washington, D.C. 20231. Or telefax at phone number (703) 746-9890. For formal or draft communications, please label "PROPOSED" or "DRAFT". Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, 6<sup>th</sup> Floor Receptionist, Arlington, Virginia. 22202.

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Sana Al-Hashemi  
Patent Examiner  
Technology Center 2100  
April 28, 2005



ALFORD KINDRED  
PRIMARY EXAMINER